

WHAT IS CLAIMED IS:

- 1           1.     A display system, detachable from a host device, the display  
2     system, comprising:  
3                 a power source;  
4                 a processor coupled to the power source;  
5                 a memory coupled to the power source and the processor;  
6                 a flexible electronic display coupled to the processor and the  
7     power source;  
8                 a coupler for coupling the flexible electronic display to the  
9     host device; and  
10                a flexible touch sensor movable with the flexible electronic  
11     display.
- 1           2.     The display system of claim 1, wherein the flexible electronic  
2     display is electronic paper (e-paper).
- 1           3.     The display system of claim 1, wherein the flexible display is  
2     foldable.
- 1           4.     The display system of claim 1, wherein the host device is a  
2     handheld computer.
- 1           5.     The display system of claim 1, wherein the flexible touch  
2     sensor includes a transparent coating.
- 1           6.     The display system of claim 1, wherein the flexible touch  
2     sensor includes an electrotextile.
- 1           7.     A portable electronic device, comprising: a housing;  
2                 a coupler connected to the housing; and

3 a flexible display screen assembly, the flexible display screen  
4 assembly being viewable when coupled to the coupler and expandable to  
5 provide a larger viewing area, at least when decoupled from the coupler,  
6 the flexible display screen assembly including,

7 a power source;

8 a processor coupled to the power source;

9 a memory coupled to the power source and the  
10 processor;

11 a flexible electronic display coupled to the processor  
12 and the power source; and

13 a flexible touch sensor movable with the flexible  
14 electronic display, providing an enlarged touch sensor area when  
15 the viewing area of the flexible display screen assembly is enlarged.

1 8. The portable electronic device of claim 7, wherein the  
2 flexible electronic display is electronic paper (e-paper).

1 9. The portable electronic device of claim 7, wherein the  
2 flexible display is foldable.

1 10. The portable electronic device of claim 7, wherein the  
2 portable electronic device is a handheld computer.

1 11. The portable electronic device of claim 7, wherein the  
2 flexible touch sensor includes a transparent coating.

1 12. The portable electronic device of claim 7, wherein the  
2 flexible touch sensor includes an electrotextile.

1 13. A foldable display assembly, comprising:  
2 a power source;  
3 a processor coupled to the power source;

4 a memory coupled to the power source;  
5 a foldable electronic display coupled to the processor and the  
6 power source;  
7 a coupler for coupling the foldable electronic display to a  
8 host device; and  
9 a foldable touch sensor foldable with the foldable electronic  
10 display.

1 14. The foldable display of claim 13, wherein the foldable  
2 electronic display is electronic paper (e-paper).

1 15. The foldable display of claim 13, wherein coupler includes a  
2 coupler for coupling to a handheld computer.

1 16. The foldable display of claim 13, wherein the flexible touch  
2 sensor includes a transparent coating.

1 17. The foldable display of claim 13, wherein the flexible touch  
2 sensor includes an electrotexile.

1 18. A handheld computer, comprising:  
2 a housing;  
3 an expandable display assembly supported on the housing,  
4 providing a viewing area when the expandable display assembly is folded  
5 and providing a larger viewing area when the expandable display  
6 assembly is expanded; and  
7 a touch sensor associated with the expandable display, the  
8 touch sensor being enlarged when the expandable display is expanded.

1 19. The handheld computer of claim 18, wherein the expandable  
2 display assembly is electronic paper (e-paper).

1           20.   The handheld computer of claim 18, wherein the expandable  
2 display assembly is foldable.

1           21.   The handheld computer of claim 18, wherein the portable  
2 electronic device is a handheld computer.

1           22.   The handheld computer of claim 18, wherein the touch  
2 sensor includes a transparent coating.

1           23.   The handheld computer of claim 18, wherein the touch  
2 sensor includes an electrotexile.

1           24.   A method of using a handheld computer, comprising:  
2               viewing an image on an unenlarged viewing area of a flexible  
3 display;  
4               providing input to the handheld computer via a touch sensor  
5 having an unenlarged sensing area associated with the flexible display;  
6               enlarging the flexible display to provide an enlarged viewing  
7 area;  
8               viewing an image in the enlarged viewing area;  
9               providing input to the handheld computer via a touch sensor  
10              having an enlarged sensing area associated with the flexible display.

1           25.   The method of claim 24, further comprising:  
2               decoupling the flexible display from the handheld computer.

1           26.   The method of claim 24, further comprising:  
2               providing input using a fingertip.

1           27.   The method of claim 24, further comprising:  
2               providing input using a stylus.